



# Ø BEAT

COLO. SPRINGS,  
COLORADO

MARCH 1968

## 'WAVE MOTION' PROGRAM SET FOR MARCH PPRAA MEETING

Ron Seats, KØLZD, who teaches electronics at Palmer High school, has worked out an interesting program for the March PPRAA meeting, March 13.

The program is based on wave motion, demonstrated by a film, as well as by a unique machine developed by the Bell Telephone Laboratory to study the similarities in wave behavior.

Although the waves demonstrated by the machine are created by mechanical means, the basic theory and concepts can be applied to all waves--constancy of speed, reflection, standing waves, resonance, impedance matching, wave reflection at the boundary between two media, and matching transformers.

This program should give some a better understanding of radio waves as they are applied to an antenna. The Advanced and Extra Class examinations have questions on this, so the demonstration would also supply knowledge for this purpose.

There will, of course, be the usual door prizes and coffee and doughnuts.

## MEMBERSHIP COMMITTEE ONE OF FIRST TO "START ROLLING"

The membership committee for the PPRAA, one of the committees appointed last month by the Board of Directors, is one of the first to "start rolling," according to Dean Jaynes, WAØPJH, chairman.

Plans by Dean and his committee members call for an intensive campaign to go out after new members for PPRAA, he states. A Colorado roster has been ordered and members of the committee will be contacting the non-PPRAA hams in the area to get them into the PPRAA.

"I recently talked with a prospect who said he had never been approached," said Dean, "although he had felt for some time he should join the club.

"Perhaps some members know of others with the same idea," Dean added. "If so, I would appreciate their calling me at 634-7097 and I will get to them with an application blank."

Dean stated that the committee would also be contacting past very active members who have not yet paid their 1968 dues to get them paid up.

## Ø BEAT

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Material for the April issue only should be sent to Oak Stockton, KØROL, 2023 Essex Lane, Colo. Springs, 80909 - Telephone 596-1395. —

The PPRAA meets on the second Wednesday of each month in the Red Cross Center, 1600 N. Cascade Ave., starting at 8 p. m. All radio amateurs and other interested persons are invited.

COPY DEADLINE for the April Ø Beat will be March 26. Any material received after that date WILL NOT be included in the April issue.

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Editorial

## SOMETHING TO THINK ABOUT

Two stories which appear in this issue of Ø Beat, one on PODAF from the Denver Radio Club "The Round Table," and the one on the allocation of frequencies from Associated Press, should give every amateur operator something to think about as to what might happen in the future regarding frequencies now allocated to the Amateur Radio System.

Many amateur operators in the past, and some in the present, have seen fit to look upon the allocation of frequencies to the Amateur Radio Service as something that was granted "in perpetuum." This is far from the truth--the fact is that we must demonstrate, by the correct and continual use of these frequencies allocated to amateur use, that they are being fitly and fully used for the purposes for which they were allocated.

Perhaps the part of the "allocation story" which calls for the greatest attention of amateur operators is the last paragraph---". . . the action is not a final answer to permanent relief from the overcrowded conditions on these frequencies but 'will give us a respite while we give attention to longer-range studies."

## BOARD OF DIRECTORS

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Ed Pompea, KØZPG

-0-

What effect might these "longer-range studies" have on the frequencies at present authorized for the Amateur Radio Service? Are we demonstrating our ability and willingness to make full use of these frequencies "in the public interest"? If not, we'd better get busy and so demonstrate--or we might come up minus some frequencies one of these days.

Some of the Ø Beat readers may feel that we have "harped" on this subject overly-much. Perhaps we are classed with the boy who yelled "wolf!" too often until no one paid attention to him. Maybe so, but remember what DID happen the time he yelled "wolf!" to no avail--all was lost. Let's not find ourselves in that position--let's remain alert and continue to "earn our frequencies" and keep them!

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"Ye ed" will be taking off a couple of days after the March meeting for a three-week trip and visit in Portland, Oregon, his "native country."

During my absence Oak Stockton, KØROL, has consented to edit and publish the April issue of Ø Beat. Please give him every cooperation possible.

Frank - WØHWH

## FCC ALLOCATES 165 NEW RADIO CHANNELS FOR BUSINESS, POLICE USE

(Note: The following story was carried on the Associated Press wire on February 9, too late to be printed in the February 8 Beat. ---Editor)

WASHINGTON AP - The Federal Communications Commission allocated 165 new radio channels today for business and public use--including 20 exclusively for use by police departments.

The action was an effort to ease the clutter of the growing thousands of stations being used for direct radio communication.

The commission issued a unanimous 75-page report which said that the frequencies assigned--in the 450-470 range--are well suited for radio communication in urban areas and "Will meet the urgent need of police departments, particularly in the large metropolitan areas, for modernization and expansion."

It is the first time the FCC has set aside channels in this frequency range exclusively for police. Previously, 19 channels were available to the police, but only on a shared basis with other services such as business, fire departments, taxicabs and others. Under the new rule police will have access to 36 channels and exclusive use of 20.

In addition, the FCC set aside five channels for use by fire departments.

The commission obtained the 165 new channels by ordering all of the stations using these frequencies, to, in effect, slice the size of their signal bands in half. Where each channel originally was 50 kilocycles wide, it will now be limited to 25 kilocycles.

In addition, 40 channels in this range are being transferred from the Citizens Radio Service, most of which already is in the 27 megacycle area.

Those holding licenses to use these frequencies will have until June 1 to make  
(Continued on following page)

## MEET THE PODAF

(Note: The following article appeared in the February 1968 "The Round Table," published by the Denver Radio Club, "reprinted in full from the December 1967 'Collector and Emitter,' Oklahoma City, Okla."---Editor)

You've never heard of a PODAF? You're not alone. We'd all better get acquainted with PODAF, though, if we want to hang on to frequencies now allocated to the Amateur Radio Service.

You see, PODAF is an acronym for Power output Density Area and Frequency, a proposed yardstick to gauge spectrum utilization, a fundamental unit based on the power densities and frequencies assigned over a particular geographical area. In absolute terms, the unit is almost meaningless. But when it is used as a relative measure of spectrum saturation in various bands, PODAF leads to some interesting and enlightening observations.

One is that the increase in the use of Amateur Radio Service frequencies is very small indeed when compared with those of almost any of the other Services. Those vast waste lands of the 50 MHz, 144 MHz, 432 MHz, etc., bands make the Amateur Radio Service look the 'fattest,' in terms of used vs. unused frequencies of any of the other Services.

The fact that every licensed amateur station on this planet could operate simultaneously on the 144 MHz band without mutual interference doesn't do a bit of good for our cause when we plead to be permitted to retain the heavily used 3, 5, 7, 14, 21 and 28 MHz bands.

If you'd like to see how the Amateur Radio Service stacks up against some of the other Services, take a look on Page 38 of the Sept/Oct Issue of TELECOMMUNICATIONS.

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Bring a new member to the next meeting---let's increase our members!



## NEW FCC ALLOCATIONS

(Continued from preceding page)  
some technical changes, and full compliance will be required by 1971.

There are about 20,000 stations using frequencies in what is known as the Land Mobile Service. An FCC official estimates that these stations have about 125,000 transmitters in use, creating considerable congestion. There are now 195 channels available in the Land Mobile Service, and the FCC order increases this number to 360.

FCC Chairman Rosel H. Hyde emphasized at a news briefing that the action is not a final answer to permanent relief from the overcrowded conditions on these frequencies but "will give us a respite while we give attention to longer-range studies."

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## PRESIDENT'S COLUMN

By John Summers, WAØHHN

February was the auction month and was well attended. We had the pleasure of having a number of out of town visitors attend as well as members from the Pueblo and Denver Radio Clubs. We wish to welcome each and everyone to come back and be with us the second Wednesday of each month for our monthly meeting.

I wish to thank Darrell Bell, WØLRA, for his contribution of a complete novice station to the Deaf and Blind School here in Colorado Springs. As most members know, we have been holding code classes there for about three months and have about 12 or more students participating in the class. They now have made up in Braille a complete set of novice questions and answers taken from the License Manual. It is anticipated they will have a novice station operating by the first of June. Again, many tnx, Darrell, for the fine contribution. You made many faces sparkle

## OSIE'S

## REPORTINGS

By Rosemarie Lewis, WAØMNL

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Larry Lewis, WAØDGL, has received his California call, WA6BGG.

-rr-

Harold Combs, WAØPNR, is recovering from foot surgery.

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The Colorado amateurs teamed up to provide communications for the Sport Car Rally. The drivers left Colorado Springs and arrangements had been made for the drivers to phone Ray Sabin, KØECR, when they arrived in Idaho Springs, Colo., where they spent the night. Ray and I met on CCN frequency three times to handle the traffic to and from Idaho Springs and Colorado Springs.

-rr-

A total of 57 persons "Signed in" at the February PPRAA meeting. Of these seven were from Pueblo and one from Denver.

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Building projects--Rudy Wroblewski, WAØPJG, is building a Heathkit Twoer. Linda Lewis, WAØMNM, and Ron Seats, KØLZD, are building a mini xtmr. Larry Mardock, KØUUN, is busy assembling a VFO. John Felix, KØSLN, is finishing a transistor preamp for a receiver.

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(Continued on following page)

when I delivered it. By the way, Darrell is a data processing engineer employed by Martin-Maretta Corp. and resides at 1409 N. Chelton Road.

I would also like to commend our committees as appointed by the Board of Directors for their quick response in the various duties to which they were assigned.

Remember our meeting this month and bring a prospective ham friend.

73's John - WAØHHN

## ROSIE'S REPORTINGS

(Continued from preceding page)

George Kowalski, WØGCH, has been promoted to the Engineering Department at Ampex. He is enrolled in an Electronic Engineering course.

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Howard Dump, WAØBDQ, has been attending Denver University, taking an Engineer refresher course.

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John Felix, KØSLN, attended school in Texas and is now teaching a course in Hydraulic Heating.

-rr-

Darrell Bell, WØLRA, donated a Globe Chief 90A, a Heath AR3 and a Q Multiplier to be used at the Deaf and Blind School. John Summers, WAØHHN, PPRAA president, accepted the equipment and presented it to the school where it was greatly appreciated. John teaches amateur radio classes at the school each Sunday, with 12 to 15 students at each session.

-rr-

Linda Lewis, WAØMNM, spent a week in the hospital with an allergy reaction. After a series of tests and shots she hopes to be able to tolerate the allergies.

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Congratulations to:

Jack Edlow, WØHLE, for passing the General exam.

William Lloyd, WAØRGA, who has also received his General Ticket.

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\* The Electronic Industry has \*  
 \* spent a lot of time and money try - \*  
 \* ing to shrink its stuff down, all the \*  
 \* time ignoring the world's greatest \*  
 \* experts in miniaturization, namely \*  
 \* the candy bar manufacturers. \*

\* CCRC "Circle" \*

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Don't forget the meeting, March 13!!!!

## DIGEST OF ARRL BULLETINS

-arrrl-

ARRL Official Bulletin Nr. 156 reminds DX and contest minded amateurs of the remaining weekends in the ARRL International DX Competition. Although the period for the phone portion of the competition, March 2-3, will have passed by the time this issue is published, the c.w. portion, March 16-17, still remains.

-arrrl-

In this connection, ARRL Official Bulletin Nr. 153 cautioned United States amateurs that Cambodia, Indonesia, Thailand and Vietnam forbid radio communication between their amateurs and those of other countries. Prefixes to avoid are HS, XU, XV, 3W8 or 8F.

-arrrl-

ARRL Official Bulletin Nr. 154, reminded amateurs that February 17 marked the 32d anniversary of the passing of Hiram Percy Maxim, stating: "Many of you are radio amateurs today solely due to his vision and enthusiasm which led to the founding of the American Radio Relay League. "The code practice and bulletin transmissions of the ARRL Headquarters Maxim Memorial Station, W1-AW, are a particular tribute to the memory of this beloved first president of ARRL."

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In order for PPRAA members to plan ahead so they can arrange affairs to be able to attend all meetings, following are the meeting dates for the rest of the year:

April 10	May 8
June 12	July 10
August 14	September 11
October 9 (Annual Election)	
November 13 (Semiannual auction)	
December 11	

Now that you can plan in advance, what excuse have you for missing any?

The following is extracted from a letter to Wally Rowland, KØWMD, from Dick Hollenbeck, a former PPRAA member, now, as a major in the Signal Corps, U. S. Army, stationed at Taegu, Korea.

"Greetings from the land of Kim Chi and rice . . . Have been out in the hills quite a bit. You probably haven't read anything about it--it's not very glamorous--but we've been chasing about 100 espionage agents (from the north) all over the countryside. We've captured or killed about 80 of them. All this en-

tailed a lot of time in the boondocks and about sums up my activity for the past six months . . . Please pass on my warmest regards to the folks in the Pikes Peak area. I sure hope that I get to come back when I'm finished over here."

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FOR SALE--SB-300 with SB and CW filters, \$240. DX-100 with mike, antenna relay and spare output tubes, \$80. Hickock Signal general 288X, 35kc-160 mc, \$30. Heathkit Capacity Checker, \$25. All Heath equipment almost new.

John Tolloch 633-9985

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